



The Blurb



Newsletter of The Phil-Mont Mobile Radio Club

61 Years of Public Service, 1949 to 2010

Volume 60 Number 10

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October 2010

Bwahaa!



*Ooh, It's the scary **Halloween** issue!*



An early Heathkit? E.B. Heath & Parasol kit



SB-101 transceiver (1967)

Bob Thomas shares kit building
memories on page 5

Gene Pressler continues the *Chill of the Hunt*
from last month on page 7

<p><i>The Blurb</i> is published monthly by and for the members of The PHIL-MONT MOBILE RADIO CLUB, Inc., whose purpose is to promote Amateur Radio in general, and Mobile Radio in particular. <i>Copying and quoting</i> is permitted with a credit line. We gladly exchange publications with other amateur radio clubs.</p> <p>Requests should be sent to the Editor.</p> <p><i>Subscriptions</i> are available to non-members for \$12, addressed to the Treasurer.</p> <p>Editor: Rick DeVirgiliis ND3B nd3b@arrl.net 215-908-7225</p> <p>Club Archivist: Gwen Patton NG3P ng3p@arrl.net 610-630-9862</p> <p>Labels and mailing: KB3IV</p> <p>Submissions deadline: All copy must be in the hands of the Editor by the 20th of the previous month.</p>		<p>Directors:</p> <p>W3AOK (12) KB2ERL (10) WU3I (11) WA3KIO (12) N3MT (10) W3STW (11) N3XKE (12)</p>	<p>Contact Phil-Mont: P.O. Box 88 Abington, PA 19001 http://www.phil-mont.org Website: Eric N3QV & Andrew KC2PMW</p> <p>For club information: Contact any club officer, or the repeaters listed below. Address or club directory changes and articles for the membership e-mail list should be sent to: KB3IV</p>
<p>Committees</p> <p>Archives: NG3P Audit: NS3K Blurb folding: KB3IV & N3GLU Directory: KB3IV</p>		<p>Sunday Morning Net Schedules</p> <ul style="list-style-type: none"> • 2 Meter/ 70cm Net..... at 0930L on W3QV repeater • 10-on-10 Net at 1000L 28.393 MHz USB (±QRM) • 75 meter Net at 1020L 3.993 MHz LSB • ARES at 2100L on the W3QV repeater 	
<p>DX: N3MT Emerg.Coor: K3HWE Field Day: KE3QB Internet: N3QV & K3XS Membership: N3XKE Net Control: KB3IV</p>		<p>Publicity: W3RM Program: Club VP Public Service: KE3QB Refreshments: W3AOK Repeater: W3AOK</p>	<p>Scholarship: W3RM Skywarn: WX3PHI Sunshine: N3GLU VE Program: NS3K Welcome: N3UBY Youth: N3MT</p>

All visitors are welcome!

The club meets at 7:30 PM on the *second* non-holiday Wednesday each month except July and August at **Roxborough Memorial Hospital**, 5800 Ridge Avenue, Philadelphia, PA 19128
Maps and directions are available at www.phil-mont.org.

License Examinations are held on the fourth **non-holiday Thursday** each month at **Community Ambulance Association, 1414 E. Butler Pike, Ambler PA 19002**
Registration begins at 7:00 P.M. Applicants should contact Jim McCloskey NS3K at 215-275-2979 or jmccloskey@msn.com for the latest information.

Club Stations W3QV/R: The Jim Spencer Memorial Repeater System
Ridge & Port Royal Avenues, Philadelphia, PA **Trustee: W3RM**
147.03 MHz + PL 91.5 Hz 444.80 MHz + PL 186.2 Hz
Reach us on EchoLink through W3QV-R
W3AA Trustee: WU3I
W3EM: Field Day/special event station Trustee: N3QV

The Officers

Pres: KB3IV Ed Masarsky 310 Saw Mill Ln. Horsham PA 19044 kb3iv@comcast.net
Vice Pres: N3QV Eric D. Marano, PO BOX 233, Skippack PA 19474 n3qv@arrl.net
Sec: KB3MIV Jen Miller 9427 Kirkwood Rd. 1st Fl. Phila 19114 jencaz@verizon.net
Treas: W3RM Richard A. Moll roger.mike@verizon.net
Asst. Treas: N3MT Michael P. Taraborrelli michaelmt_1999@yahoo.com

The Prez Sez ...

Hello Phil-Mont,

The first order of business is to thank Jim, NS3K, for his presentation on the current state of D-Star Digital Communications at the September club meeting. I'm sorry I missed it, but I had a higher calling that evening. When "HE," or is it "SHE," calls it is best to listen.

The Board has a lot of catching up to do, since the very early date of the scheduled September meeting found many of the club officers out of town and we had to postpone the meeting. There are two very important issues to take up as soon as possible. The first is nominations for the board positions for year 2011. By the time you read this edition of the Blurb, some of you will already have been contacted by the Nominating Committee about serving Phil-Mont. I am hopeful that you responded in the affirmative. We need your help to infuse new ideas and leadership. This is vital to our club, and to the hobby, which you have made a major part of your everyday life. You may be fairly new to the Amateur ranks or you may have been here for longer than you care to admit. We need to keep the enthusiasm going. Please say "Yes" when called to serve.

The second subject is our Scholarship Program. I'm sure you read the articles in last month's Blurb, about this year's very deserving recipient of the PMRC 2010 W3IIM Scholarship. We also published a letter from N3VYA, Benjamin Jack, a past recipient of the scholarship. He has brought us up to date on his current accomplishments and his future plans. The Board is moving forward with the coming year's plans and will be offering multiple scholarships. Please encourage any youngsters you know who are already licensed about the scholarships available. But, more importantly, recruit those who are not yet in the hobby to see what Ham Radio is all about. I don't have to do a selling job to you. You're already here. Let your enthusiasm spread.

Please feel free to contact me or any other PMRC board members with any input, ideas, or even criticisms concerning our club. We want to hear from you.

Happy autumn,
73, Ed
KB3IV

de Ed, KB3IV

Phil-Mont Birthdays & Tidbytes

October Birthdays

- 01 Charles Phelps-N3OOV
Ed Masarsky-KB3IV
- 02 Donna Stevenson (XYL K3HWE)
Susan Decicco (XYL KE3QB)
- 03 Lisa Brady-KA3VIL (XYL N3CB)
- 06 Chris Brady-N3CB
Joan Freer (XYL W3YLT)
- 08 Frank Kohn-KB3TEZ
- 10 Patricia DiNardi (XYL N3XKE)
- 11 Charlye Johnson-K3CJ
- 31 Richard Klein-W3WXC

Membership Stats

Membership Stats
At press time, P.M.R.C. had:
79 Full Paid Members
8 Family Members
6 Youth Members (Under 17)
2 Honorary Members
1 Pending Member

NOTE: Please contact Ed, KB3IV, with any future directory changes or mailing issues.



The VE test session on Saturday the 11th saw 6 elements yield 4 licenses.

The next evening session is Thursday the 28th

As always many thanks to our VE team !

From the Secretary

General Meeting Minutes - September 8, 2010

The September 8th. general meeting of the Phil-Mont Mobile Radio Club was called to order at 8 p.m., with Steve, WU3I, presiding in the absence of the president. Steve welcomed those present to the first General Meeting after the Summer hiatus.

Dick, W3RM, reported on the condition of the club treasury, and also spoke about the PMRC Scholarship Program, welcoming contributions. He read a recent communication he received from a two-time scholarship recipient, Benji Jack, N3VYA (See page 6, September Blurbs). Benji, a graduate of Columbia University, has recently entered medical school.

Joseph Barbere, KB3UDX, was present and was introduced as a candidate for membership. Joe was licensed at a recent PMRC VE test session.

The MS-150 City-to-Shore event is upcoming, and still needs some volunteers, especially drivers. Those interested please contact KE3QB ASAP.

W3RM reminded members that the Annual Meeting of the Corporation, with the election of officers and

directors, takes place in December. Eligible members desiring to run for an elected office are encouraged to contact any officer or board member in order to be included on the ballot.

Al, W3STW, NCS of the new PMRC Digital Net, invited interested members to check into the net, held on the club repeaters at 1900 hours Tuesday evenings.

The business of the meeting having been concluded, Steve introduced Jim, NS3K, who presented a very interesting and informative program on "D-Star Communications," highlighting recent updates and improvements in that technology.

Respectfully Submitted,

Al, W3STW, Secretary of the Meeting
Thanks for filling in at the General meeting Al!

As the Prez Sez, the September Board of Directors meeting was postponed.

New member application

We have an application for membership from Joseph Barbere, KB3UDX, who was present--and introduced--at the general meeting Wednesday 9-8-2010. His initiation fee is paid. He passed his examination at our March VE session.

Joseph H. Barbere (Joe) KB3UDX
152 Sumac Street
Philadelphia, PA 19128
Phone: 215-964-3294
DOB: 12-26-1980
License Class: Technician (Expires 3-17-2020)
Occupation: Computer Programmer
E-mail address: joe.barbere@gmail.com

de Dick, W3RM

Radio Stores ... 'N' More

by Bob Thomas, W3NE

HEATHKITS A Lost Resource

You arrive home, worn down from an exasperating day at work, then you spy that box on the table with other mail. *It's your new Heathkit!* Cares of the day fade away, you eat dinner, then it's back to that box and into the shack where it is opened to reveal a new addition to your station – almost. First, though, it is necessary to assemble all those parts in the kit and then wire it, welcome tasks taking two to forty hours, depending on the equipment's complexity. They are not really “tasks” at all; building a kit is a satisfying, educational journey from first inspection of each component to checking-off assembly steps as they are completed, and then finally bringing your new device to life as it is tested and adjusted, all of that laced with visions of how it will bring new enjoyment to your hobby.

Sadly, that experience, so common for almost forty years, occurs no more. Kit building was shoved aside by the opiate of two-meter HTs and Asian transceivers so cheap “it doesn't pay” to make your own. But what is sacrificed for instant gratification? For one thing it is the inner satisfaction that comes from creating something with your own hands, a valuable experience that seldom enriches the lives of young people today. In a more practical sense you do not acquire the faintest notion of how that Wundergadget works or what to do when it stops working. With kit-built gear on the other hand, some knowledge of its operation is absorbed during construction, so the builder will not be reluctant to dive inside when it needs servicing. Those are all moot considerations today because, except for Elecraft, kits are no longer on the market. Here are some reflections on what once was available from Heathkit, the principal kit manufacturer. Products of other notable companies will be covered in a subsequent article.

The E.B. Heath Aerial Vehicle Company, a 1913 distributor of airplane supplies, was the unlikely progenitor of latter day Heathkits. Mr. Heath was famous in the late 'twenties for his “Parasol” full-size airplane kit. The company was purchased in 1935 by Howard Anthony after it had entered bankruptcy. After WW-II Mr. Anthony conceived a plan to buy huge quantities of radio parts at distress prices on the war surplus market and then package them for resale in the form of assembly kits for amateurs, experimenters and servicemen. Heathkit was born!

The first Heathkit was the Model O-1 5” oscilloscope introduced in 1947 for only \$39.95. Five months later the V-1 Vacuum Tube Voltmeter hit the market for \$24.50, and the following month Heath advertised the A-1 24-watt audio amplifier. Heath continually upgraded their kits to reflect improved technology and rising customer expectations, for example, oscilloscope kits eventually included dual-trace models with 60 MHz bandwidth. Generators advanced from the \$19.95 G-1 of 1948 to near-laboratory grade RF signal generators. Waveform generators, and everything needed for TV receiver alignment were introduced. The lowly V-1 VTVM graduated to ever-improved models, some with digital displays and versions for audio measurements at the millivolt level. In short, there was virtually nothing the home builder or experimenter could wish for that was not available in a Heathkit. Then came automotive instruments that were very popular until cars became too complex to be serviced at home. Audio amplifiers were lucrative for the company and even today Heath tube amps command sky-high prices on eBay. Every one of those items provided their builders with a feeling of personal accomplishment and enabled them to acquire home instrumentation and entertainment facilities at a fraction of the cost of assembled commercial products.

Earliest Heathkits did not have detailed step-by-step wiring instructions. Mr. Anthony quickly realized, however, that inexperienced builders would have to be taken by the hand during construction to fulfill the company motto: “We will not let you fail.” Each explicit instruction step soon included a small square block where the builder placed a check mark after that step had been completed. Lengths and

colors of every wire were specified. Connections to terminals were designated “S” if the joint was to be soldered immediately, or “NS” to indicate a wire should be crimped on the terminal but not soldered until additional wires were added. Mechanical layouts, pictorial wiring diagrams, and schematics were furnished on oversize pull-out sheets with the manual to aid the builder.

Heath certainly made their mark in the amateur radio community! Somewhat stodgy at first, but then with a burst of development and styling, their amateur gear eventually matched or exceeded many commercial products of the day. The first transmitter was the 1953 AT-1, a 35-watt two-tube bandswitching CW rig with built-in power supply. Comments on *eham.com* and other websites reveal how profoundly that basic little rig influenced young hams of the day. The “DX” transmitter line began in June 1955 with the DX-100, a self-contained 100-watt 80-10M CW/AM transmitter kit selling for \$189.50. For impecunious hams, a series of simpler models in the DX-series culminated in 1962 with the DX-60, a 90-watt CW/AM transmitter for around \$80 that even a modern amateur would do well to have in his shack. The VF-1 VFO kit, at only \$19.95, enabled frequency agility with those basic transmitters.

Heath’s first receiver was the 1948 K-1, an elementary regenerative set with limited performance aimed at SWLs. The next series of receivers, AR-1, -2, and -3 were rudimentary superhets but still marginal for ham use. It was not until the HR-10, an all-band superhet with crystal lattice filter was introduced in 1961 to complement the DX-60 that receiver development finally caught up with transmitters. From then on, Heath amateur products really soared.

Following success of the DX-100, Heath made one last big effort with “classic” AM equipment before the arrival of SSB. The TX-1 *Apache* 150-watt transmitter and RX-1 *Mohawk* receiver had matching appearance and sold together from 1958 to 1964 for \$505. Again, this was far below comparable ready-built equipment. Both units were full-featured with slide rule dials that indicated only the band (80-10M) in use. They were big and heavy with rugged steel cabinets and chassis, and

high grade Chicago transformers potted in sexy formed-steel cases. SSB began taking over amateur phone operations, so in 1961 Heath introduced the SB-10 Sideband Adaptor for use with the TX-1 which had provision from its inception for easy conversion to the new mode. The TX-1 was redesigned to incorporate integral SSB generation as the HX-1 *Marauder* in 1962. Hams yearning for more power had their needs satisfied with the KL-1 *Chippewa* amplifier in the styling of the TX/RX/HX series incorporating two 4-400 final grounded grid tubes operating Class C for CW/FM/RTTY and AB-2 for SSB. High power VHF AM requirements were fulfilled in 1958 by the VHF-1 *Seneca* transmitter, also packaged in the TX-1 style, with about 100-watts on 6 and 2 meters. That transmitter was a far cry from the first foray by Heath in 1960 into VHF with their quirky “Lunchbox” transceivers, so named because of their appearance, for 2- and 6-meters (as well as 10M). They were pretty basic, but they helped populate the bands and they introduced thousands of Novices to VHF operation.

That brings us to compact SSB transmitters, receivers and transceivers. Collins had set the pace with their innovative base station and mobile designs and Heath, never bashful about copying, exploited the trend with a gaggle of lookalike products too numerous to cover here in detail. Suffice it to say, the company was in the game in a big way. Ever mindful of the younger element in amateur radio, in 1963 Heath offered very low cost single-band 200-watt SSB transceivers with sweep tube finals for 75, 40 and 20 meters – their famous HW, or “Hot Water” line, as well as low power entry level multiband transceivers. When the QRP operation gained traction, they responded in 1972 with a new product line, culminating in the HW-7 4-watt SSB/CW all-band transceiver of 1984. Premium SSB models included high performance receivers, transmitters and transceivers, notably the SB-101, based on Collins products. Power gain for those rigs was realized through a succession of linear amplifiers, ultimately the SB-220 with two grounded grid 3-500Z tubes for 1 kW PEP output, a hot item on eBay even today.

Finally, and it was *final*, Heath matched the most advanced Japanese equipment of 1982 with their

SS-9000 transceiver – but it was supplied assembled, not as a kit, signaling the end of a rich epoch when anyone wanting to make fascinating things with their own hands had access to over 400 kits of all kinds. The breadth of Heath products during the existence of the company was truly astounding, ranging from amateur products only touched upon above, to clocks, weather stations, garage door openers, computers, and color television receivers. There were several changes in Heathkit's ownership and management over the life of the company, but those of us who were fortunate to be around during those splendid times will never forget first sight of that carton just arrived from Benton Harbor – *my new Heathkit!*



The Start of Something *Part two - The Chill of the Hunt*

By Gene Pressler, W3ZXV

Yes, I know that's supposed to read "The Thrill of the Hunt," but you haven't read this story yet. Soon after I earned my amateur radio license, I joined the North Penn Radio Club and began meeting people with similar interests and a host of activities that appealed greatly to me. Amateur radio is more than meets the eye of the casual observer, and its many different aspects can maintain one's interest — as it has mine — over a very long time. My own particular interest over the years has been long-distance communications with foreign

countries. There are different types of communications techniques, from CW, AM, FM, single sideband and teletype, and packet radio to amateur television. Some amateurs enjoy experimenting, building their own equipment and much more. And, over the years, except for ATV, I would eventually do them all.

When I joined the North Penn club, its members were just starting an activity called "transmitter hunting," an amateur radio sport in which a "fox" hides with a portable transmitter/receiver while the "hounds" try to find him using home-built radio direction-finding (DF) equipment.

It's not as easy as it sounds, and there quickly developed a keen competition among the club members to design the best direction-finding equipment and techniques, and a system evolved where each month's winner of the hunt would be the next month's "fox."

Two of my new friends, Mel Jones (W3DHJ) and Rod Hemminger (W3YEA), soon surfaced as the competition to beat. Another member, Norm Messinger (K3HNV), was an engineer, and he was responsible for several iterations of DF equipment that she shared with me, but even with his help, I was always an "also-ran."

Rod and Jonesie would try to outdo each other in finding the weirdest places to hide the transmitter. There were places like cemeteries, a barn silo, a mall parking lot and other sites which were designed to frustrate the "hounds."

One of the best of these was a site Rod once picked in the middle of a boulder field near Camp Delmont, where some of the boulders were as big as small houses. The "fox" and his transmitter were 15 feet down among the spaces between the boulders, with the antenna feedline snaked around others and located a good 50 feet away.

I would often come in second or third but, with the prize always just beyond my grasp, I was getting terribly frustrated. We would continue our hunts in good weather or bad, and neither snow nor cold nor rain could stop us.

There was one hunt that is still etched indelibly in my mind, even after all these years. Jonesie was the "fox" on this occasion; I had a newly minted DF loop that Norm had designed, and as we took off from the starting point, I had an encouragingly unambiguous indication pointing me in the direction of the village of Skippack.

I should mention that this was a very cold night in February, and there was still a skimcoat of snow left from a previous snowfall. I was, of course, bundled up, but there was a definite bite to the air. I was hoping this night's hunt would end quickly almost as much as I was hoping that I would be the first to find the "fox."

The direction-finding equipment we used was essentially an 18-inch diameter loop of quarter-inch copper tubing mounted on a broom handle and connected to a field-strength meter. The idea was to drive along holding the loop out of the car window while you tried to keep your car on the road, listen to the "fox's" transmissions and watch the signal-strength readings on the meter.

A tough enough job at any time, holding the loop out of a car window on a cold night adds a further element of misery to the process.

Trusting hopefully in the significance of my readings on this night, however, I made a beeline in the direction of the little village along the Skippack Creek. The signal got stronger as I stopped several times along the way to recheck my readings, and my confidence and excitement continued to build as I reached the outskirts of Skippack.

I got to a spot along the creek where I felt I was very close, close enough that I jumped out of the car to take another reading. The indication was very strong in the direction of the creek. I had heard comments on the air from other "hounds" that told me that they, too, were heading in my direction. Without hesitation, I began to crash through the brush, heading toward the creek. Except during occasional flood conditions caused by heavy rains, the creek is a shallow, easily waded stream. But as I reached the bank and stood there wondering what to do next, I noticed that the surface of the water was covered by a thin crust of ice.

Then it happened! Jonesie's voice came over the "fox's" transmitter: "Is that you, Gene? I can see you from where I am. Come and find me," he whispered. I was stunned. Usually, the "fox" just emitted a steady tone, but there was Jonesie, communicating with me ... and he was trying to help!

In my excitement, of course, it didn't occur to me that everyone else could hear Jonesie's whispering over the radio, too. My brain cells must have been freezing up: I thought he was talking just to me.

In the brush behind me I could now hear voices as the other "hounds" following me began to arrive in the area in force. Excited that I was so close and hearing that Jonesie was trying to help me finally win one of these events, I called out urgently, "Where are you?"

"Over here," was the whispered reply. "Watch across the creek. I'm going to wave a white handkerchief at you!"

I squinted into the darkness, straining to see his wave and, so help me, I clearly saw a white handkerchief flapping at me from across the 40-foot-wide stream. With the voices behind me growing ever louder, I never hesitated. I stepped off the bank of the creek and, crashing through the layer of thin ice, I made my way across the creek in icy water up to my crotch.

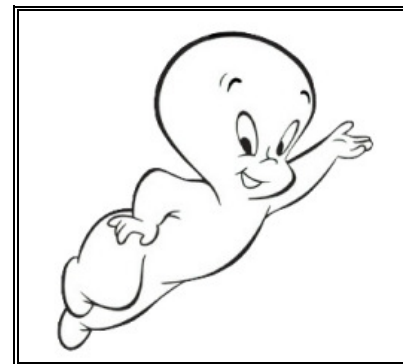
As I fought my way through the icy water and reached the other bank, I could hear the excited yells of my competition along the bank behind me ... as they discovered Jones in his hiding place along the river bank I had just left!

As it turned out, I had nearly stepped on him almost as soon as I arrived at the site. He had hidden below a narrow overhang along the creek's edge.

Dejectedly slogging my way back through the water again, my pants froze as hard as boards almost as soon as I stepped out of the water on my way back to the car.

Even though I had failed again, my fellow "hounds" rewarded my efforts on this occasion by allowing me to be the "fox" on the next hunt.

It was a hollow gesture ... and I never did win a transmitter hunt.



See ya next time!

Digital Mode Net

Tuesday nights on the repeater are livelier since Al, W3STW and Barry, K3EUI began the Digital Net. Stop by at 19:00L on the club repeater if you've been curious about how all these digital modes work and how to start using them. There are many good, free software applications available so if you have a computer and radio you're almost home. The only thing you need is a link between the two and there are several ways to accomplish that.

For Sale

Phil-Mont Mobile Radio Club has radio equipment donated to the Scholarship Fund for sale. Please review the list below and contact Steve, WU3I, if you have any interest or questions. Contact him at wu3i@arrrl.net

Updated as of 9/21/2010

Radio shack Pro 40 headphones
Radio shack horn speaker
Radio shack pro 2026 Scanner
M3 freq counter
M3 Freq standard
Motorola mobile HT charger
Radio shack digital Multimeter
Diawa CN465 2m/70 cm meter 15/75 watts
Motorola house charger for ht
Kenpro KR400 RC rotor controller
Uniden Force HT with converttacom and extra battery
Scanner antenna
Ameritron AL 82 amp in service
Drake L4B amp
Ameritron RCS8V coax Switch
Autek WM1 Meter
Rig Blaster
Step Ir 4 element beam
Yaesu G800s Rotor
Wire antennas
Hazer system
u/v vertical antenna
50 feet tower with fold over base

6 foot create roof tower with thrust bearing
Ham IV with controller
Alliance HD 73 with controller
Alinco DR-605 dual band radio 2M/70CM

Mosley TA-33 beam \$100.00 each (2 available)

Cushcraft A-3 beam \$100.00 (1 available)

And ...

6 foot telephone relay rack on castors,
Ballantine ac voltmeter Model 300G, 7" rack-mount,
Optoelectronics FC-50 frequency counter,
Pagel Electronics 6-VHF-A frequency counter,
National One-Ten VHF super-regen receiver, c. 1936, restored.
ARRL handbooks 1933 - onward
RCA Aeriola Senior, 1-tube battery receiver
Atwater Kent 35, c. 1926, fair condition
Zenith tombstone receiver Model 5-S-228, c. 1938, restored, excellent original finish.
Kreco 10 meter coaxial vertical antenna,
40 mobile antennas,
old technical books and parts.
Contact Tom Bohlander WA3KLR, 215-536-1331

Please feel free to forward to other clubs of which you are a member



October at PMRC ...

3rd Sun: KB3SJS *NCS*
6th Wed: Board of Directors Meeting
10th Sun: WU3I *NCS*
13th Wed: General Meeting
17th Sun: KB3IV *NCS*
24th Sun: KC2PMW *NCS*
28th Thurs: VE session
31st Sun: N3QV *NCS*
Boo! It's Halloween too!

And don't forget the **ARES** net every
 Sunday night at 2100L and the new ***Digital***
Net Tuesdays at 1900L, both on W3QV/R

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First Class Mail

The Blurb
 The Phil-Mont Mobile Radio Club, Inc
 310 Saw Mill Lane, Apt 6D, Horsham PA 19044